

Type LS Drilmar® Signal & Instrumentation

HF XLPE Insulated, SHF1 Jacketed, Drilling Rig and Marine Cable, 150/250 V

CME[®]
wire and cable

A Viakable Company

Features

Engineered for easiest installation.

Maximum conductor operating temperature: 90 °C as per IEC.

DRILMAR® HF XLPE Insulation:

- Low Smoke and Halogen Free XLPE meeting IEC 60092-360

- Rated at 90 °C.

SHF1 Jacket:

- Low Smoke and Halogen Free Polyolefin meeting IEC 60092-360

Completed cable offers superior flame resistance meeting:

- 7IEC 60332-1 and IEC 60332-3-22 Category A.
- Low smoke as per IEC 61034-2
- Halogen free as per IEC 60754-1.

Application

DRILMAR® Type LS cables are for use in signal transmission application where twisted groups of conductors are desired, also with overall or individual shielding to prevent electrostatic and/or electromagnetic interference.

Typical applications include: tank level indicators, fire and gas protection systems, communication systems, CO₂ systems, and smoke detectors.

Standards

IEC 60092-350

General construction and test methods of power, control and instrumentation cables for shipboard and offshore applications.

IEC 60092-351

Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables.

IEC 60092-376

Cables for control and instrumentation circuits 150/250 V (300 V).

IEC 60092-359

Sheathing materials for shipboard power and telecommunication cables.

Approvals

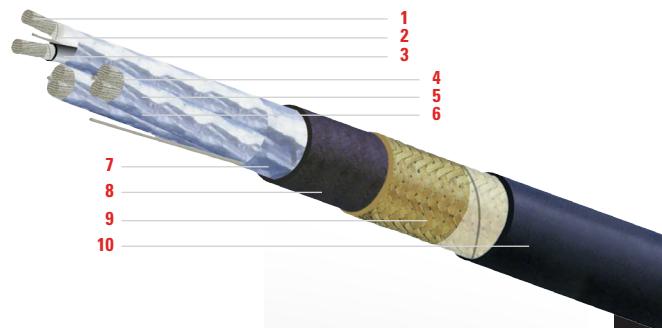
- Intertek, as Type HF XLPE/SHF1
- ABS, American Bureau of Shipping.
- DNV, Det Norske Veritas
- LRS, Lloyd's Register of Shipping.

Engineering Information

1. Conductor: Annealed flexible Tin Coated Copper, Class 5 as per IEC 60228.

Sizes: 20 AWG up to 14 AWG.

2. Separator Tape: Suitable tape as required.



3. Insulation: Low Smoke Halogen Free flame retardent crosslinked polyethylene (HF XLPE).

4. Assembly: Insulated conductors twisted in pairs or triads.

5. Identification: Color coded with sequential printed numbers.

Pairs: Black and White.

Triads: Black, White and Red.

6. Cabling: Pairs/Triads cabled round with moisture and flame resistant fillers as required, and binder tape.

7. Optional Shielding: Individual and/or Overall Aluminum/Polyester tape, with drain wire, 100% coverage.

8. Jacket: Black Low Smoke Halogen Free flame retardant thermoplastic Polyolefin (SHF1).

9. Armor (optional): Standard - Tinned Copper Braid.

10. Jacket (overall): Black Low Smoke Halogen Free flame retardant thermoplastic Polyolefin (SHF1).

On request: Grey Jacket is available.

Technical Data

Type LS-Pairs Signal & Instrumentation, 20 AWG, Individual/Overall Shield

Conductor	Unarmored					Armored					Armored and Sheathed				
	Number of Pairs	Part Number	Nominal OD		Net Weight		Tinned Copper				Tinned Copper				
			in	mm	lb/kft	kg/km	Part Number	in	mm	lb/kft	kg/km	Part Number	in	mm	lb/kft
2	DTPS20LSSH-F-2	0.40	10.1	80	119	DTPS20LSSH-F-T2	0.45	11.3	152	226	DTPS20LSSH-F-TS2	0.53	13.5	194	289
3	DTPS20LSSH-F-3	0.44	11.0	97	145	DTPS20LSSH-F-T3	0.49	12.3	176	262	DTPS20LSSH-F-TS3	0.57	14.5	221	330
4	DTPS20LSSH-F-4	0.47	12.0	111	166	DTPS20LSSH-F-T4	0.52	13.3	197	293	DTPS20LSSH-F-TS4	0.61	15.4	246	366
5	DTPS20LSSH-F-5	0.50	12.6	134	200	DTPS20LSSH-F-T5	0.55	13.9	223	332	DTPS20LSSH-F-TS5	0.64	16.2	279	416
6	DTPS20LSSH-F-6	0.54	13.7	160	238	DTPS20LSSH-F-T6	0.59	15.0	257	382	DTPS20LSSH-F-TS6	0.68	17.3	317	472
7	DTPS20LSSH-F-7	0.60	15.2	175	261	DTPS20LSSH-F-T7	0.65	16.4	282	419	DTPS20LSSH-F-TS7	0.74	18.8	348	517
8	DTPS20LSSH-F-8	0.65	16.3	224	334	DTPS20LSSH-F-T8	0.69	17.6	339	504	DTPS20LSSH-F-TS8	0.79	19.9	409	608
10	DTPS20LSSH-F-10	0.67	16.9	233	347	DTPS20LSSH-F-T10	0.72	18.2	352	523	DTPS20LSSH-F-TS10	0.82	20.8	431	642
12	DTPS20LSSH-F-12	0.70	17.9	268	399	DTPS20LSSH-F-T12	0.75	19.1	392	584	DTPS20LSSH-F-TS12	0.85	21.7	476	708
14	DTPS20LSSH-F-14	0.77	19.5	312	465	DTPS20LSSH-F-T14	0.82	20.8	448	667	DTPS20LSSH-F-TS14	0.92	23.3	538	801
16	DTPS20LSSH-F-16	0.80	20.2	351	523	DTPS20LSSH-F-T16	0.85	21.5	492	732	DTPS20LSSH-F-TS16	0.95	24.1	585	870
17	DTPS20LSSH-F-17	0.86	21.8	381	567	DTPS20LSSH-F-T17	0.91	23.1	532	791	DTPS20LSSH-F-TS17	1.02	25.8	640	952
19	DTPS20LSSH-F-19	0.86	21.8	399	594	DTPS20LSSH-F-T19	0.91	23.1	550	819	DTPS20LSSH-F-TS19	1.02	25.8	658	979
20	DTPS20LSSH-F-20	0.91	23.1	445	662	DTPS20LSSH-F-T20	0.96	24.4	605	900	DTPS20LSSH-F-TS20	1.07	27.1	718	1069
24	DTPS20LSSH-F-24	1.01	25.8	550	818	DTPS20LSSH-F-T24	1.06	27.0	727	1082	DTPS20LSSH-F-TS24	1.18	30.0	865	1287

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Type LS-Pairs Signal & Instrumentation, 18 AWG, Individual/Overall Shield

Conductor	Unarmored					Armored					Armored and Sheathed				
	Number of Pairs	Part Number	Nominal OD		Net Weight		Tinned Copper				Tinned Copper				
			in	mm	lb/kft	kg/km	Part Number	in	mm	lb/kft	kg/km	Part Number	in	mm	lb/kft
2	DTPS18LSSH-F-2	0.47	11.9	109	163	DTPS18LSSH-F-T2	0.52	13.2	194	288	DTPS18LSSH-F-TS2	0.60	15.3	242	360
3	DTPS18LSSH-F-3	0.52	13.1	132	196	DTPS18LSSH-F-T3	0.57	14.4	224	334	DTPS18LSSH-F-TS3	0.66	16.7	283	421
4	DTPS18LSSH-F-4	0.56	14.3	167	248	DTPS18LSSH-F-T4	0.61	15.6	268	398	DTPS18LSSH-F-TS4	0.71	17.9	330	492
5	DTPS18LSSH-F-5	0.59	15.0	184	274	DTPS18LSSH-F-T5	0.64	16.3	290	431	DTPS18LSSH-F-TS5	0.73	18.6	355	528
6	DTPS18LSSH-F-6	0.65	16.4	221	328	DTPS18LSSH-F-T6	0.70	17.7	335	499	DTPS18LSSH-F-TS6	0.79	20.0	406	604
7	DTPS18LSSH-F-7	0.71	18.1	238	355	DTPS18LSSH-F-T7	0.76	19.3	364	542	DTPS18LSSH-F-TS7	0.86	21.9	448	667
8	DTPS18LSSH-F-8	0.78	19.7	317	472	DTPS18LSSH-F-T8	0.83	21.0	454	675	DTPS18LSSH-F-TS8	0.93	23.5	545	810
10	DTPS18LSSH-F-10	0.79	20.2	319	474	DTPS18LSSH-F-T10	0.84	21.4	459	682	DTPS18LSSH-F-TS10	0.94	24.0	551	820
12	DTPS18LSSH-F-12	0.84	21.3	367	546	DTPS18LSSH-F-T12	0.89	22.6	515	766	DTPS18LSSH-F-TS12	1.00	25.3	620	923
14	DTPS18LSSH-F-14	0.92	23.2	425	633	DTPS18LSSH-F-T14	0.97	24.5	586	872	DTPS18LSSH-F-TS14	1.07	27.3	700	1042
16	DTPS18LSSH-F-16	0.95	24.1	481	716	DTPS18LSSH-F-T16	1.00	25.4	647	963	DTPS18LSSH-F-TS16	1.11	28.1	765	1139
17	DTPS18LSSH-F-17	1.03	26.2	530	789	DTPS18LSSH-F-T17	1.08	27.5	711	1058	DTPS18LSSH-F-TS17	1.20	30.5	851	1266
19	DTPS18LSSH-F-19	1.03	26.2	556	827	DTPS18LSSH-F-T19	1.08	27.5	737	1096	DTPS18LSSH-F-TS19	1.20	30.5	877	1305
20	DTPS18LSSH-F-20	1.10	27.9	626	931	DTPS18LSSH-F-T20	1.15	29.2	818	1217	DTPS18LSSH-F-TS20	1.27	32.2	966	1438
24	DTPS18LSSH-F-24	1.22	31.1	774	1152	DTPS18LSSH-F-T24	1.29	32.7	1043	1552	DTPS18LSSH-F-TS24	1.41	35.9	1220	1816

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Type LS-Pairs Signal & Instrumentation, 16 AWG, Individual/Overall Shield

Conductor	Unarmored					Armored					Armored and Sheathed					
	Number of Pairs	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
			in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
2	DTPS16LSSHF-2	0.53	13.5	145	215	DTPS16LSSHF-T2	0.58	14.8	240	357	DTPS16LSSHF-TS2	0.68	17.1	300	446	
3	DTPS16LSSHF-3	0.60	15.2	186	276	DTPS16LSSHF-T3	0.65	16.5	292	435	DTPS16LSSHF-TS3	0.74	18.8	358	533	
4	DTPS16LSSHF-4	0.65	16.4	227	337	DTPS16LSSHF-T4	0.70	17.7	341	508	DTPS16LSSHF-TS4	0.79	20.0	412	613	
5	DTPS16LSSHF-5	0.68	17.4	258	383	DTPS16LSSHF-T5	0.73	18.6	379	564	DTPS16LSSHF-TS5	0.83	21.2	460	684	
6	DTPS16LSSHF-6	0.75	19.1	309	460	DTPS16LSSHF-T6	0.80	20.3	442	657	DTPS16LSSHF-TS6	0.90	22.9	530	788	
7	DTPS16LSSHF-7	0.82	20.9	333	495	DTPS16LSSHF-T7	0.87	22.2	478	711	DTPS16LSSHF-TS7	0.987	24.9	582	866	
8	DTPS16LSSHF-8	0.90	22.8	441	657	DTPS16LSSHF-T8	0.95	24.0	599	891	DTPS16LSSHF-TS8	1.05	26.8	711	1058	
10	DTPS16LSSHF-10	0.92	23.3	445	663	DTPS16LSSHF-T10	0.97	24.6	607	903	DTPS16LSSHF-TS10	1.08	27.4	721	1074	
12	DTPS16LSSHF-12	0.98	24.9	524	780	DTPS16LSSHF-T12	1.03	26.2	696	1036	DTPS16LSSHF-TS12	1.15	29.2	830	1235	
14	DTPS16LSSHF-14	1.06	27.0	600	893	DTPS16LSSHF-T14	1.11	28.3	786	1170	DTPS16LSSHF-TS14	1.23	31.3	930	1385	
16	DTPS16LSSHF-16	1.11	28.3	693	1031	DTPS16LSSHF-T16	1.16	29.5	887	1320	DTPS16LSSHF-TS16	1.28	32.5	1037	1544	
17	DTPS16LSSHF-17	1.21	30.7	761	1133	DTPS16LSSHF-T17	1.27	32.4	1026	1528	DTPS16LSSHF-TS17	1.40	35.6	1202	1789	
19	DTPS16LSSHF-19	1.21	30.7	800	1190	DTPS16LSSHF-T19	1.27	32.4	1065	1586	DTPS16LSSHF-TS19	1.40	35.6	1241	1847	
20	DTPS16LSSHF-20	1.28	32.4	883	1315	DTPS16LSSHF-T20	1.34	34.0	1163	1731	DTPS16LSSHF-TS20	1.47	37.4	1360	2024	
24	DTPS16LSSHF-24	1.43	36.3	1105	1644	DTPS16LSSHF-T24	1.50	38.0	1418	2110	DTPS16LSSHF-TS24	1.64	41.5	1647	2450	

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Type LS-Pairs Signal & Instrumentation, 14 AWG, Individual/Overall Shield

Conductor	Unarmored					Armored					Armored and Sheathed					
	Number of Pairs	Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight		Part Number	Nominal OD		Net Weight	
			in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km		in	mm	lb/kft	kg/km
2	DTPS14LSSHF-2	0.60	15.2	193	287	DTPS14LSSHF-T2	0.65	16.5	300	446	DTPS14LSSHF-TS2	0.74	18.8	366	544	
3	DTPS14LSSHF-3	0.67	17.1	244	363	DTPS14LSSHF-T3	0.72	18.3	363	541	DTPS14LSSHF-TS3	0.82	20.9	443	660	
4	DTPS14LSSHF-4	0.72	18.4	301	448	DTPS14LSSHF-T4	0.77	19.6	429	638	DTPS14LSSHF-TS4	0.87	22.2	514	765	
5	DTPS14LSSHF-5	0.77	19.5	344	512	DTPS14LSSHF-T5	0.82	20.8	480	714	DTPS14LSSHF-TS5	0.92	23.3	569	847	
6	DTPS14LSSHF-6	0.84	21.4	414	617	DTPS14LSSHF-T6	0.89	22.7	563	837	DTPS14LSSHF-TS6	1.00	25.4	669	995	
7	DTPS14LSSHF-7	0.92	23.4	444	661	DTPS14LSSHF-T7	0.97	24.7	606	902	DTPS14LSSHF-TS7	1.08	27.5	722	1074	
8	DTPS14LSSHF-8	1.01	25.6	590	877	DTPS14LSSHF-T8	1.06	26.8	766	1140	DTPS14LSSHF-TS8	1.17	29.8	903	1343	
10	DTPS14LSSHF-10	1.03	26.2	600	894	DTPS14LSSHF-T10	1.08	27.5	781	1162	DTPS14LSSHF-TS10	1.20	30.5	921	1371	
12	DTPS14LSSHF-12	1.10	28.0	710	1056	DTPS14LSSHF-T12	1.15	29.3	902	1343	DTPS14LSSHF-TS12	1.27	32.3	1051	1564	
14	DTPS14LSSHF-14	1.21	30.6	824	1227	DTPS14LSSHF-T14	1.27	32.2	1089	1620	DTPS14LSSHF-TS14	1.40	35.4	1264	1881	
16	DTPS14LSSHF-16	1.25	31.8	936	1393	DTPS14LSSHF-T16	1.31	33.4	1210	1801	DTPS14LSSHF-TS16	1.44	36.6	1391	2070	
17	DTPS14LSSHF-17	1.36	34.5	1025	1525	DTPS14LSSHF-T17	1.42	36.1	1322	1968	DTPS14LSSHF-TS17	1.56	39.5	1531	2278	
19	DTPS14LSSHF-19	1.36	34.5	1082	1610	DTPS14LSSHF-T19	1.42	36.1	1379	2053	DTPS14LSSHF-TS19	1.56	39.5	1588	2363	
20	DTPS14LSSHF-20	1.44	36.6	1204	1792	DTPS14LSSHF-T20	1.51	38.3	1519	2260	DTPS14LSSHF-TS20	1.65	41.8	1750	2604	
24	DTPS14LSSHF-24	1.61	40.8	1489	2216	DTPS14LSSHF-T24	1.67	42.5	1839	2737	DTPS14LSSHF-TS24	1.82	46.2	2110	3140	

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Ampacities: Refer to beginning of section.

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